

# FOLIO

THE UNIVERSITY OF ALBERTA STAFF BULLETIN

EDMONTON, ALBERTA

10 MARCH 1977

## GENERAL FACULTIES COUNCIL

*The regular meeting of General Faculties Council was held on 28 February. The following matters were among those discussed.*

### Nominating Committee report

The chairman of the Nominating Committee announced that the committee was in the process of selecting nominations for new members to replenish the various standing committees of GFC. He invited members of the University community to apply for positions on these committees. (A list of GFC standing committees was published in the *Register of Standing Committees* which was included in the 21 October *Folio*. Extra copies of this publication are available at the University Publications Office.)

The following persons were elected by Council to serve on GFC Committees:  
*Selection Committee for Chairman of the Department of Educational Psychology:*  
T.M. Nelson, Psychology.

*Selection Committee for Chairman of the Department of Secondary Education:*  
Ross Macnab, Physical Education.

*Writing Skills Committee:* Maurice Legris and James Marino, English; R. Glenn Martin, Secondary Education; Wilma Laing, Elementary Education.

*Ad hoc Committee on Student Evaluation of Instruction:* Derek Wilson, Elementary Education/History/Geology; Morris Robbins, Chemistry; Verna Lefebvre, Home Economics.

*General Faculties Council Executive Committee:* J.A. Lejnieks, Political Science; R.N. McElhaney, Biochemistry.

*Academic Appeals Committee:* D.J. Carmichael, Dentistry; D. Cass, Botany.

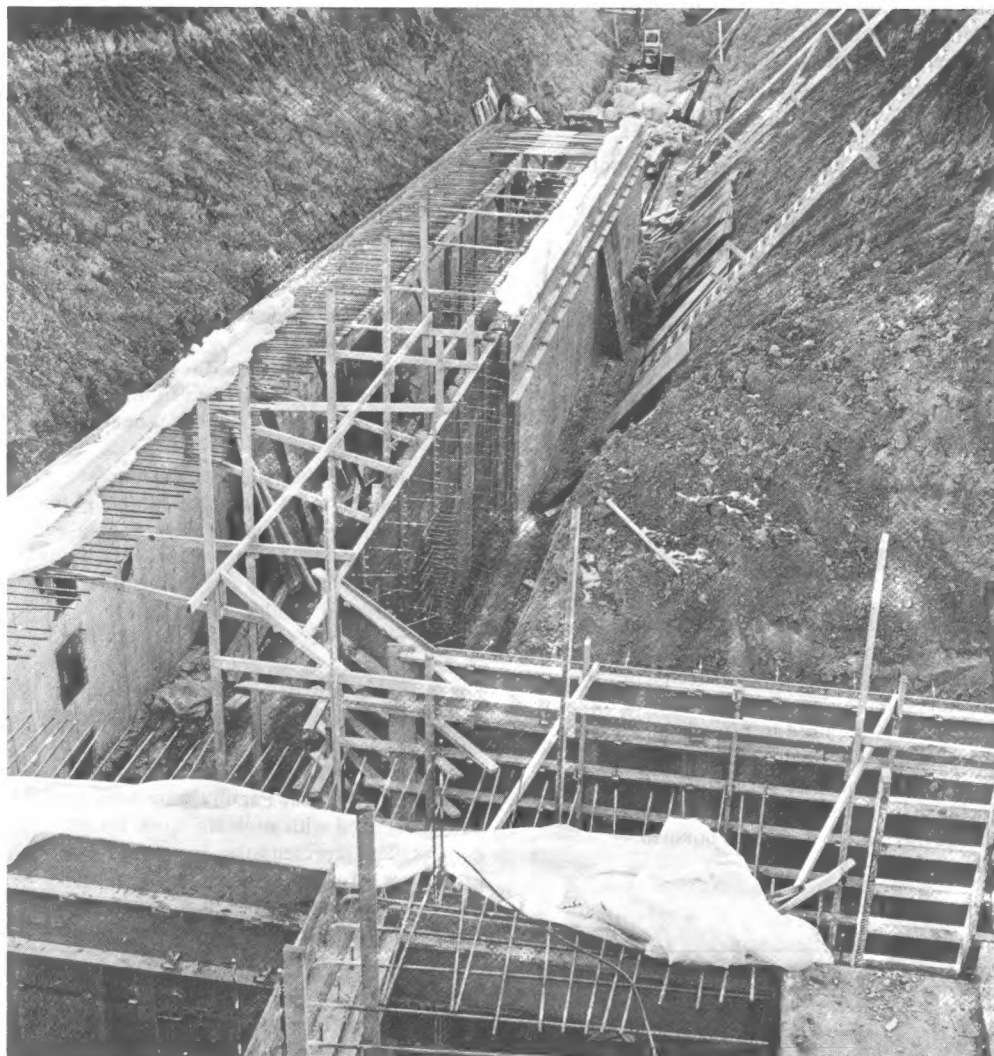
*Academic Development Committee:*  
R.S. Patterson, Educational Foundations;  
R. Wood, Chemical Engineering; S. Greenhill, Community Medicine.

*Campus Development Committee:* F. Ustina, Mathematics; K. Hutchinson, Physiology.

*Computer Facilities and Policy Committee:*  
S. Fraga, Chemistry.

*Conference Funds Committee:* M. Nay, Secondary Education; Tova Yedlin, East European Studies.

*Committee to Investigate Teaching:*  
A. Friesen, Pharmacology; D.J. Hughes, Physics; A. Nitecki, Library Science.



Work is underway on an extension to the 3.05 mile long service corridor tunnel. The extension will supply necessary utility services to the site of the future University of Alberta Health Sciences Centre, to be built on the site of the present Hospital; it will also provide more reliable services to the present Hospital during construction. The tunnel, a ten-by-ten foot concrete shell containing pipes for steam, domestic and chilled water, and compressed air, and cables for electricity, telephones, and alarm systems, is being constructed northeast of the Hospital along 112 Street. The extension should be completed by September.

Another aspect of the work on the Health Sciences Centre has also begun. North of the Interns' Residence, slightly northwest of the Clinical Sciences Building, and west of the parking lot behind the Polio Wing of the Hospital, testing of the subsurface soil conditions will take place. Testing will involve excavation, placing of a compaction drive concrete pile, testing of the pile, and recording of the noise and vibration caused by the compaction technique. The test is designed to determine the most economical pile and piling pattern design, and it will also indicate the effect the placing of piles will have on the adjacent building. During this work, all Hospital and University staff, students, and the public are asked to obey the safety signs posted in the area.

#### Question Period: questions requiring study

A question put before the last meeting of Council, requiring extensive preparation of admissions data by the Faculty of Law, gave rise to a motion proposed by Dean Baldwin (Arts) "That where it appears that a question submitted through the GFC Question Period will require an appreciable study, the Executive Committee be authorized to enquire into the expenditure of time and effort required to provide an answer, and if the Committee deems such expenditure unwarranted, the question should not be pursued."

GFC Executive elaborated on this motion, recommending:

1. "that where a question is submitted in writing for the Question Period, the Secretary will direct it to the appropriate officer of the University for a reply. If the recipient considers that an excessive amount of time and effort is required to provide an answer, he may refer the question to the Executive for a ruling on whether such expenditure is warranted. If the Committee deems it unwarranted, the question should not be pursued."
2. "that where a question is submitted from the floor during the Question Period, the Chairman will rule on whether or not it can be answered expeditiously from the floor. If it cannot, the question will then be referred to the appropriate officer of the University for a reply. If the recipient considers that an excessive amount of time and effort is required to provide an answer, the question will then be referred to the Executive Committee for a ruling on whether such expenditure is warranted and whether or not the matter should be pursued."

Members of Council felt that the question period was vital to parliamentary democracy and that it should be as open and free as possible. They indicated that the final responsibility for allowing or disallowing a question to be pursued should rest with Council itself, not with its Executive.

An amendment was proposed for each of the Executive Committee's recommendations, adding "unless GFC at a subsequent meeting suggests otherwise" to the end of the final sentence in each case. The amended recommendations were then approved.

#### Business Administration denied permission to hold common final examinations

A proposal placed before Council by the Faculty of Business Administration and Commerce, that provision be made for common final examinations in courses for which this was considered desirable, was defeated by GFC.

Executive Committee had recommended that the Faculty be authorized to hold common final examinations for a one-year trial only.

A member of the Faculty of Business Administration and Commerce explained that common final examinations were desirable in certain multi-sectioned, prerequisite accounting courses to provide more standardization and comparability of results.

Student members expressed concern that students in sections of courses which were poorly or inadequately instructed would be unjustly penalized by common final exams. Other student members, from Business Administration, mentioned that common examinations in that Faculty were held at night and interfered with students' work for other courses. The representative from the Faculty of Business Administration agreed that it was indeed envisaged that these common examinations be held in the evening.

#### Recommendations re the Report of the Commission on Canadian Studies, "To Know Ourselves"

Associate Vice-President (Academic) Willard Allen, after detailed study of the Report, presented four major recommendations, based on the Commission's recommendations, to Council for its consideration. All four recommendations were approved.

##### 1. *Re the publication of Canadian material:*

"that the University should actively and publicly support the University of Alberta Press in renewed efforts to obtain special funding for a significant expansion in its publication of Canadian materials for teaching and research."

2. *Re a non-credit program in Canadian Studies:* "that the Faculty of Extension and the Canadian Studies Committee of the Faculty of Arts should be requested to consider a non-credit program in Canadian Studies to be

offered to the public."

3. *Re courses and programs in Native Studies:* "that General Faculties Council should establish a special committee to explore, within the University and with the native groups in northern Alberta, the establishment of formal courses and teaching and research programs in Native Studies." A report would be made to GFC on such programs.

4. *Re regional exchange programs with other Canadian universities:* "that this University should take the lead in exploring ways of increasing the exchange on a regional basis of students and faculty members in Canadian Studies among the universities of Canada. Special funding should be sought through the federal and provincial governments, and the AUCC should be consulted as a possible coordinating body." This recommendation was referred to the President for action.

#### Biomedical Engineering and Applied Science

Council approved the adoption of a report entitled "Review of the Division of Biomedical Engineering and Applied Sciences." The report contained the following recommendations, which had been endorsed by the Academic Development Committee:

1. The report recommended "that effective 1 April 1977 the division be administered by, and located within, the Faculty of Medicine, not as a department but as a division within the Department of Surgery or some other suitable department as determined by the Dean."

2. "Each member of the division should hold a joint appointment in another department or division. This [is] necessary to maintain disciplinary associations." The review committee recommended that as many of the present appointments as possible be made joint appointments involving the Faculties of Engineering and Science. These appointments would provide some of the communications that should be part of an interdisciplinary activity.

3. "The division should be expected to develop a teaching program consisting of courses or course components in biomedical engineering and applied science that would have relevance to students in the Faculty of Medicine and in the Faculties of Engineering and Science."

4. "It is recognized that there are individuals, particularly in the Faculty of Engineering, who would appreciate greater interaction with the Faculty of Medicine than they have yet had. Particular attention should be paid to this area of potential interaction. It is recommended that some recognized avenue be established for the Faculties of Engineering and Science to routinely express views about the structure and operation of the division. It is assumed that these Faculties will be

# FOLIO

THE UNIVERSITY OF ALBERTA, EDMONTON, ALBERTA

Published every Thursday for the staff and interested persons by the University Publications Office. Copyright 1977

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326 Assiniboia Hall, The University of Alberta  
Printed by the Printing Department  
Photographic lab work by Technical Services

Telephone 432-4991

represented in the selection committee for the Director of the Division.” Dean Cameron of the Faculty of Medicine pointed out that it was not usual for there to be a formal selection committee for a director of a division within a department in his faculty, and that he particularly opposed the formation of such a committee in this case. Vice-President (Academic) Horowitz suggested that these faculties might be represented on a small, informal advisory committee to the Dean; this was acceptable to Dean Cameron.

5. “The Department of Electrical Engineering contributed some budgetary items to the division when it was in the Faculty of Graduate Studies and Research, as did the Faculty of Engineering. It is assumed that these financial arrangements will be reconsidered by the Deans of Medicine and Engineering when the division is relocated for administrative purposes.”

The Division of Biomedical Engineering is at present within the Faculty of Graduate Studies and Research and provides research facilities and lecture courses for graduate programs in cooperation with other departments. The major areas of research are in medical physics, organ preservation, neurophysiology, cryobiology, and instrumentation.

#### **University Collections Policy**

Council ratified a policy statement prepared by the University Collections Committee.

The purposes of a Collections policy were outlined by the Collections Committee as follows:

1. to protect historical collections that are not presently part of the defined responsibility of specific departmental teaching/research functions;
2. to protect collections which may have lost their immediate teaching value, but which now have historical and museological interest;
3. to protect teaching/research collections located in departments unable to provide adequate care for them;
4. to prevent unauthorized disposal of any collections and historical material;
5. to provide assurance to potential donors of collections that the University has a recognizable policy and accepts professional responsibility for the gifts it accepts;
6. to coordinate the care of the collections and to prevent duplication of facilities, staffing and function;
7. to provide an exhibition function to departments wishing to display aspects of their collections in their own areas. Also, to provide a central, secure exhibit area both for travelling exhibitions of educational, aesthetic, and scientific interest and for specific exhibits which departments may wish to provided from time to time; and

8. to facilitate the raising of funds.

The policy statement goes on to define the University Collections and to describe what kinds of items belong to the collections and what items are accepted; to define the purposes of the University Collections; to describe the administration of the University Collections and the functions of the University Collections Centre; and to delineate the terms of reference of the University Collections Committee, which is a standing committee of the President.

#### **Rehabilitation Medicine to offer degree programs only**

Council adopted the proposals from the Faculty of Rehabilitation Medicine that after the 1976-77 academic year the Diploma Programs in Occupational Therapy and Physical Therapy be discontinued for students entering the Faculty and the programs for the first time, and that, as of September 1977, students admitted to the Occupational Therapy and Physical Therapy programs proceed for the four-year BOT or BPT degrees. Dean Wilson of the Faculty of Rehabilitation Medicine commented that as of 1980 diplomas will not be acceptable as a professional qualification in either discipline.

Council also approved the proposal that students could be admitted to the Faculty of Rehabilitation Medicine only upon entering the second year of the four-year program. The first, preprofessional year could be taken in any one of a number of faculties, but would have to include two half-year courses in Psychology or Educational Psychology and two half-year courses in Rehabilitation. The remainder of the courses would be electives, but would have to include one science laboratory course.

#### **Proposed amendments to Academic Staff Agreement**

The following amendments to the Academic Staff Agreement, approved by the Agreement Review Committee, were endorsed by General Faculties Council. These and other amendments will be presented formally for ratification by both the Academic Staff Association and the Board later in the spring.

#### **Standards for tenure/increments/promotions**

Sections 6.07.2 and 9.01.3 will be changed to have the Faculty Salaries and Promotions Committee establish standards for each faculty for tenure, increments, and promotions. These standards must be approved by the Faculty Council concerned and filed with the Vice-President (Academic) prior to implementation.

The original amendment approved by the Agreement Review Committee stated that Faculty Council would approve these standards “in principle”; GFC Executive recommended that this phrase be deleted.

In the original Agreement, standards were

to be set by Faculty Councils and approved by the General Salaries and Promotions Committee before implementation.

The Agreement Review Committee also approved the deletion of section 9.03.9, which gave the General Salaries and Promotions Committee power to approve, reject, or recommend variations to standards for a Faculty as approved by its Faculty Council.

#### **Deadline for decision on appealed tenure**

The deadline for the General Appeals Committee's decision on appealed tenure will be changed to 15 April from 31 May for appeals filed before 15 January.

#### **Membership of General Salaries and Promotions Committee**

Membership on this committee will be changed from “five staff members elected by General Faculties Council” to “five members,” thus allowing membership on GSPC to students.

#### **Rights of staff members appearing before the Faculty Tenure Committee and/or Faculty Salaries and Promotions Committee**

Clause 6.12.3 will be changed from “Presentation of cases by a staff member under this Article 6 . . .” to “In the event that a staff member chooses to appear before the Faculty Tenure Committee, the presentation of such a case under this Article 6 . . .” The following clauses will be added:

6.12.4 Where a staff member chooses to appear before the Committee to present a case pursuant to clauses 6.12.1 and 6.12.2 the staff member is entitled to be present during the presentation of the case by the department chairman. (A similar clause already exists for increments and promotions.)

6.12.5 Should the staff member choose to appear before the Faculty Tenure Committee to present a case, he or she may also submit a written statement to the Committee and/or submit other documents.

6.12.5 In the event that a staff member has the right to appear before the Faculty Tenure Committee to present a case pursuant to clauses 6.12.1 and 6.12.2, the staff member may, in lieu of such appearance, submit a written statement as well as other documents to the Committee.

Similar amendments will be made to the section relating to salaries and promotions and staff rights to appear and/or submit written statements and documentation to Faculty Salaries and Promotions Committees.

An amendment was also approved to provide that the staff member give one week's notice to the Faculty Tenure Committee or Faculty Salaries and Promotions Committee that he or she will appear before the Committee or submit documentation.

#### **Status of APO, General Promotions and Salaries, and General Appeals Committees**

Council agreed that the Administrative and Professional Officers Committee, the General Promotions and Salaries Committee, and the General Appeals Committee cease to be considered standing committees of General Faculties Council. These committees now will be "creatures of the Academic Staff Agreement."

Council also agreed that each committee should report annually to GFC. In the case of the APO Committee, the report will include information about the number and nature of cases handled and their outcome, with the confidentiality of appellants protected. This information will also be included in the annual report of the General Appeals Committee, as well as any recommendations for modifications of the procedures followed by the General Appeals Committee as suggested by committee members as a result of their experience.

#### **Government-proposed fee differential for foreign students**

Council received for information a statement from R.G. Baldwin, Dean of the Faculty of Arts, that "The Council of the Faculty of Arts, at a meeting on 15 February 1977, formally expressed its disapproval of the Provincial Government's interference with academic autonomy in prescribing a two-tiered fee system without the agreement of the Board of Governors, in apparent disregard to the Universities Act. It likewise expressed its view that the Minister was acting on a discriminatory basis contrary to the spirit of the Bill of Rights. Finally, Council deplores the Provincial Government's seeking to use the University as a tax-collecting agent to give effect to a political decision."

Given the fact of a meeting of the Board of Governors scheduled for later in the week, GFC approved a motion "that this Council gives full and unqualified support to the Board of Governor's decision on the two-tiered fee system."

### **FOREST SCIENCE SERIES**

One of Canada's most important, and often most neglected, resources is the forest, and to ensure that the forest is properly and fully used, the forest industry needs professionals who understand the importance and need for careful management and use of that resource.

When students graduate from the Forest Science program here and go on to take positions in the forest industry, they will need a broad, well-rounded understanding of the industry in all its aspects. In an effort to give Forest Science students that kind of broader understanding, the Department of Forest Science, with the help of government and

private industry, has sponsored a series of guest lectureships. The lecture series provides the students with information that supplements what they learn in their classes.

Alberta Forest Products Association, North Western Pulp and Power Limited, Simpson Timber (Alberta) Limited, Proctor and Gamble Cellulose Limited, Takla Logging Company Limited, Prince George Pulp and Paper Limited, and Northwood Mills Limited all made contributions to fund the lecture series. These contributions were then matched by the Alberta Department of Energy and Natural Resources.

The first lectures in the series were held from 1 November to 17 January and were delivered by Max MacLaggan, a well-known forestry professional who has worked with both government and industry in a variety of capacities for more than fifty years. The second series of lectures began on 24 January and were given by Des Crossley, Chief Forester for North Western Pulp and Power at Hinton for twenty years and now an active consultant and lecturer. Although the lecture series is optional for Forest Science students, the enrolment of about seventy-five attests to the popularity and value of the series.

Mr. MacLaggan's six lectures covered a variety of subjects that would help the students achieve a greater understanding of the forestry industry as a whole. He lectured on such topics as industrial relations in the forestry industry (an important aspect that can create more efficient operation of the industry), sawmilling (with discussions of design and equipment of mills along with discussion of the uses and handling of residue from the mills), plywoods and new developments in their production, and a thorough look at the pulp and paper industry, taking into account various products and production methods.

Insofar as forestry students will find themselves involved in many different areas of the forestry industry, it is important for them to have some understanding of the "whole picture," as Mr. MacLaggan calls it. The students must understand the whole process from round wood to the various products the forest provides; they must see how "it all fits a pattern." They must understand above all, Mr. MacLaggan points out, "what the forestry is being done for." If they understand that, they will then be in a better position to decide how best to do it.

Forest products are becoming increasingly important, and the forest industry remains one of the most important to the economy. Yet often the governments and the public do not see it this way. Because forests are a renewable resource, they are very valuable indeed; but to make the best use of this resource, conservation—which entails wise use and

management—is essential. Long-range plans for the use of forests must be developed. More wood volume must be grown to the acre, more efficient use must be made of the trees, and the whole process must be viewed in relation to other aspects of the economy. This takes knowledge, expertise, and concern. This is the challenge, and so far, says Peter Murphy, Chairman of the Department of Forest Science, "governments have not responded sufficiently to the challenge." Max MacLaggan concurs with this and adds that until very recently decisions about forest management and planning were made by two groups of people: company top executives and politicians. Neither has the knowledge or the real concern to be truly effective in dealing with the forest properly—they tend not to see the whole picture. More and more, however, trained forestry professionals are assuming decision-making positions in industry and government, and they have begun to exert some influence.

Des Crossley, who over the years has exerted considerable influence in the forest industry, especially in Alberta, presented students with a step-by-step plan for successful development of a forest management program in Alberta. He emphasized the need for more intense use of the forests to attain maximum yield by reducing the amount of fibre left after harvesting. He also stressed the need for using the whole tree rather than just the stem, for cleaning and thinning overly dense stands, for introducing tree-improvement programs, and for using fertilizers.

The inability to understand the requirements of good forest management is part of not being able to see the whole picture. Peter Murphy points out that often the public does not understand the long growth periods of the forest. Mr. Crossley agrees and likens forest management to grain crop management but with an essential difference: the harvest time is eighty to one hundred years hence rather than at the end of each growing season. Thus, forests must be carefully husbanded, with adequate planning to ensure that harvesting takes place over a long enough period so that by the time one harvesting cycle is complete a new crop will be ready to begin the new harvesting cycle.

Forest management in Canada, Mr. Crossley believes, is faced with a reorientation of its goals and objectives. It must reassess where it is going if it is to meet world demands for wood products. Canada must adopt a national policy to establish broad objectives. The countries of western Europe and Scandinavia, he points out, are "a couple of centuries ahead" of Canada in forest management policy. In spite of that, however, Mr. Crossley feels that Alberta has one of the most effective forest management programs in

Canada, and the program is bound to improve with increasing government interest and funding.

It is only reasonable to expect that when there is a resource that is valuable and that can be renewed by careful planning and use, every effort should be made to do just that. People like Max MacLaggan and Des Crossley have devoted their careers to that effort, and now through this lectureship they have been given the opportunity to inform Forest Science students and interest them in the challenge that presents itself. And the challenge is an important one. As Mr. MacLaggan says, with a certain finality and urgency, "The forest will give us an environment forever—if we treat it right."

## NW NIGHT WATCH

A *Gateway* advertisement in mid-January warned "campus women" that "there have been numerous sexual assaults on women travelling from campus late at night" and advised them to "travel in pairs" and vary their routes home at night. People became alarmed, and questions were asked in various places—How real is the danger? How many assaults have been reported?

About a year ago, the Academic Women's Association responded to a similar need expressed in General Faculties Council to know just what the incidence of sexual assault was on campus. The group set up an electronic secretary to record calls telling of sexual assaults of all kinds, not just rape. In less than two months, forty different cases were recorded, involving both female and male victims.

Numbers vary and are considered to be low by people at University Health Services and the Rape Crisis Centre who work with assault victims. According to Tricia Smith, Director of the Edmonton Rape Crisis Centre, between twenty-two and twenty-seven sexual assault victims from the University community have approached the Centre since it opened last May. Ms. Smith commented that victims who go to the Rape Crisis Centre or the University Health Service or some other agency for help probably represent only a fraction of those actually assaulted. The incident is frequently so traumatic that the victim is too upset to talk about it.

Whether the number of people on campus molested or harmed is forty or twenty-seven or sixteen or two a year, there is reason enough for the University to do something about the problem. General Faculties Council struck a

committee last spring to determine what actions could be taken to help the victim and to deter possible assailants. One of the first and most obvious needs the Committee identified was for nighttime walking patrols both inside and outside campus buildings.

Such a patrol, designated Night Watch (the name originated with a *Gateway* headline last January), has been set up on a trial basis until the end of the term. The coordinator is Ron Marr, a BEd graduate and sometime theology student. Patrollers, both men and women students wearing bright orange arm bands with NW on them, began last week to walk in pairs through and around campus buildings, especially where students and staff tend to keep late hours. They will attempt to be at exits when classes and special events end and when the libraries close, and will be generally available to escort people who are alone to their cars or safely onto a bus home.

The purpose of Night Watch, according to Jean Lauber, Associate Vice-President (Academic) and Chairperson of the GFC committee considering this problem, is to act as a deterrent to loiterers and possible assailants. The Night Watch patrollers are armed only with flashlights and carry radios, so that they can be dispatched wherever they are needed. "Physical Plant has been most cooperative in helping us set up Night Watch, by supplying radios and access to buildings," said Dr. Lauber. "And the Students' Union has supplied an office and telephone in SUB for our headquarters and dispatching centre."

Those requiring urgent assistance or those who simply feel apprehensive about walking alone across campus can reach Night Watch at 432-3214.

"Feedback is essential to the project," Dr. Lauber said. She emphasized that the committee had been able to obtain only a small amount of funding to operate Night Watch for a short trial period. "We have only about six weeks to demonstrate that Night Watch is worth funding throughout next year."

Night Watch needs to hear from people who feel that certain parts of campus are potentially risky for someone walking alone, so that those areas can be especially patrolled. Persons who suspect they are being followed or feel apprehensive can appeal to patrollers for immediate assistance or accompaniment to their campus destinations.

Those are obvious and urgent situations, but Night Watch (and the Committee) would also like to hear from people who simply feel less apprehensive about studying or working late on campus because of the patrollers. When you are trying to prove that such a service is needed, it is difficult to say how many sexual assaults never occurred because of the efforts of Night Watch.

Another project Committee members are working on is a "what to do if . . . list," advice to people faced with sexual assault themselves. As soon as the list is prepared it will be printed by *Folio*.

After the trial period the Committee will report the results of the Night Watch Project to General Faculties Council, and if the utility of the project is proven and the project approved by GFC, approaches will be made to the University Planning Committee and the Board Finance Committee for adequate funds to provide this kind of preventive patrol system next year.

Meanwhile, people studying late to prepare for their final exams will have one thing fewer to worry about while they work.

Night Watch can be reached every evening at 432-3214.

## BOARD OF GOVERNORS

*The regular meeting of the Board of Governors was held Friday, 4 March. The following items were among those considered.*

### Students Union and Community Day Care Centre

The Board approved a recommendation of the Finance Committee that a grant be made to the Students' Union and Community Day Care Centre to meet a projected operating deficit of up to but not exceeding \$5,630.

### Edmonton Hire-A-Student

Board members approved a grant of \$1,000 to Edmonton Hire-A-Student for its 1977 program. Edmonton Hire-A-Student is a self-contained adjunct of Canada Manpower which is operated by students for the purpose of finding summer employment for students in the Edmonton area. It is funded from a number of sources including the Students' Union of this University, Grant MacEwan Community College, and the Northern Alberta Institute of Technology; the Edmonton Chamber of Commerce; the Public and Separate School Boards; and the provincial and federal governments.

Board members also approved a recommendation made by the Finance Committee that the grant would be given with the understanding that the executive of Edmonton Hire-A-Student will examine the feasibility of levying a small user's fee on successful applicants in future years as an additional source of funding.

### Theoretical Physics Institute

The Board of Governors endorsed the Constitution and Bylaws of the Theoretical Physics Institute. The object of the Institute is to promote research in theoretical physics in Canada through the maintenance at the University of an Institute providing a uniquely favorable environment for productive and significant research.



#### Quota Recommendations for 1977-78

At its meeting on 2 May, 1975, the Board of Governors agreed that where a Faculty Council decides that limitations on space, staff, or facilities are such that all qualified students who apply for admission cannot be accommodated, the Council may propose a quota for admission and a procedure for selecting students to fill that quota. The quota must be approved by the Board of Governors.

The following quotas were approved for the next term: Acting and Design, 20 first-year students; Business Administration and Commerce, 210 first-year students, 200 transfer students; Dental Hygiene, 40 first-year students; Dentistry, 50 first-year students; Engineering, 500 first-year students, 390 second-year students (55 Chemical, 95 Civil, 95 Electrical, 95 Mechanical, 50 Mineral); Law, 175 first-year students; Library Science, 35 first-year students; Medical Laboratory Science, 36 first-year students; Medicine, 118 first-year students; Nursing (post RN), 72 students; Nursing (four-year), 54 first-year students; Occupational Therapy, 30 first-year students; Pharmacy and Pharmaceutical Sciences, 130 first-year students; Physical Therapy, 40 first-year students; Speech Pathology, 25 first-year students.

#### Membership of Board of Governors

The Board of Governors endorsed the names of J. Spark and H. Hoggins as the two undergraduate students who will replace L. Zoeteman and J. McGhie as members of the Board. Jay Spark was elected President of the Students' Union and Howard Hoggins was elected to fill the position of student-at-large on the Board of Governors.

### THREE ENGINEERING PROFESSORS CONDUCT RESEARCH FOR AOSTRA

H.E. Gunning, President of the University, has announced the appointment of Maurice Dusseault to the Alberta Oil Sands Technology and Research Authority Chair in Engineering. The appointment becomes effective 1 July. Mr. Dusseault is a graduate of this University and has already conducted research on the oil sands; his doctoral dissertation was "The geotechnical characteristics of the Athabasca oil sands." The research he now undertakes will include a study of the behavior and strength characteristics of oil sand in its native state, and it is hoped that the results of his research will lead to the improvement of surface mining techniques and perhaps provide safe access to the deeper deposits in the oil sands via shafts and tunnels. Mr. Dusseault will be teaching in the Department of Civil Engineering during his appointment.

Two other professors in the Faculty have

completed agreements with AOSTRA to carry out research into problems critical to development of the oil sands. D.L. Flock, Professor of Mineral Engineering, is to undertake a twelve-month, \$74,740 program to develop new in-situ steam recovery techniques in laboratory cells and to measure surface chemistry properties of bitumen. Field testing may result from his research.

D.B. Robinson, Professor of Chemical Engineering, will be involved in an eighteen-month, \$55,000 program of research to determine the thermodynamic properties of hydrogen, carbon monoxide, ethylene, and propylene, gases involved in a number of stages of oil sand processing; a precise knowledge of the properties of these gases in mixtures is vital to the design of contacting and separating equipment used in the recovery of bitumen.

The University and AOSTRA have joined on other projects, and several members of the Faculty of Engineering are involved in advanced fundamental research related to oil sand development. In addition, AOSTRA recently awarded a two-year, \$14,560 scholarship to Henry J. Baird, a graduate student working toward an advanced degree in oil sands problems, and a three-year, \$52,000 Post-Doctoral Fellowship to Anthony Kerr-Jones, who works at the Hydrocarbon Research Centre at this University. And recently Syncrude Canada organized, with Dr. Flock, a management seminar for faculty members in Engineering, its primary topic being the complex organizational structure and planning necessary to the success of a large industrial complex. Eight members of the Faculty attended the seminar 10 and 11 February and toured the Syncrude site near Fort McMurray.

### PUBLIC LECTURES ON SOUTH AFRICA

Two women from the African National Congress (South Africa) will lecture in Edmonton 14 and 15 March as part of their cross-Canada tour sponsored by CUSO and the Congress. They will be speaking on apartheid and their experiences of it, calling, as have many non-governmental organizations, governments, and the United Nations, for immediate assistance and support for the national liberation movement in South Africa.

Kate Molale has been a member of the African National Congress and its Women's League for over twenty-five years and a member of the Federation of South African Women for twenty-three years; she was arrested many times in South Africa and finally had to flee the country. She now serves as Congress representative to the

Women's International Democratic Federation at Berlin, West Germany.

Mpho Thoeabale is a sixteen-year-old South African student from the township of Soweto in Johannesburg. She was actively engaged in the demonstrations of June 1976, but, having escaped South Africa, she now lives in Dar es Salaam, Tanzania.

The women will give two public lectures: the first on 14 March at 8 p.m. in the Centennial Library Theatre, the second on 15 March at 12:30 p.m. in TLB-2 Tory Building. For further information contact the CUSO Office, 2-5 University Hall, telephone 432-3381.

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### PEOPLE

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■ John King-Farlow, Professor of Philosophy, recently spoke on "The death of God" to the Polish Canadian Academic and Businessmen's Club of Edmonton.

■ Gwynn Nettler, Professor of Sociology, gave a series of public lectures at Simon Fraser University from 14 to 16 February. Under the auspices of the Department of Continuing Studies and the Department of Criminology, Dr. Nettler spoke on "Juvenile crime," "The new criminology," and "Killing each other."

■ Norman A. Page, Professor of English, on leave at present, read papers at meetings of the Australasian Universities Language and Literature Association and the Australasian Victorian Studies Association, both of which were held in Wellington, New Zealand.

■ James H. Balderson, Assistant Professor of Educational Administration, gave a presentation entitled "Perceptions of schools: factual opinions and opinionative facts" at the recent Calgary City Teachers' Convention.

■ Several members of the Department of Soil Science recently participated in short courses sponsored by the Alberta Department of Agriculture. M. Nyborg, Professor, spoke to the Alberta Forage Course at Westlock and Stony Plain. G.R. Webster, Professor, was a speaker at a forage crops symposium at Mallaig. W.B. McGill, Associate Professor, and J.A. Robertson, Professor, were speakers at the Alberta Soils Course at Red Deer, Stettler, and Camrose. Total attendance at these meetings was over 1,000 farmers, and they showed keen interest in the subjects of the meetings.

■ The University of Alberta String Quartet, with guest artists Isobel Moore and Mary Cockell, recently taped a performance of *Concerto for Piano, Violin, and String Quartet* by Ernest Chausson, for presentation on the national CBC television program "Music to

See." Mrs. Cockell and members of the Quartet, Lawrence Fisher, violin, Michael Bowie, viola, and Claude Kenneson, cello, played the quartet parts of the score, and Isobel Moore and Thomas Rolston played the solo parts. The show will be aired on Sunday, 13 March, at 1 p.m. on CBXT, Channel 5, cable 4.

■ Meyer Horowitz, Vice-President (Academic), visited the University of Sherbrooke on 21 February as a member of an evaluation team for The Conference of Rectors and Principals of Quebec Universities to review a proposal for a graduate program in educational research.

■ L.C. Green, University Professor in the Department of Political Science, delivered an address on "The status of Canadian Indians" at the Ninth Western Canadian Studies Conference in Calgary on 19 February.

■ Violet Archer, Professor of Music, has had two compositions published by Waterloo Music Company Limited of Waterloo, Ontario. One is Shout With Joy, an anthem for mixed chorus and organ. The other is Trio No. 2 for Piano, Violin, and Cello. The latter has been widely performed in Canada and the United States and has been recorded by the International Service of the Canadian Broadcasting Corporation. A second printing of Dr. Archer's Theme and Variations for piano has also been released by the same publisher.

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## VISITORS

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■ John Moffat of the University of Toronto delivered a lecture entitled "Non-singular solution in a unified theory of gravitation and electromagnetism" on 23 February to the Theoretical Physics Institute.

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## BOOKS

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■ Alastair Small, Associate Professor of Classics, has edited *Monte Irsi, Southern Italy: The Canadian Excavations in the Iron Age and Roman Sites, 1971-1972*. This monograph has 296 pages, forty-two line drawings, and thirty-seven plates and is part of the British Archaeological Reports Supplementary Series. Among the contributors are R.J. Buck, Professor of Classics, and Jeremy Rossiter, a graduate student in Classics. The excavation was organized from this University and was financed by grants from the President's Humanities Research Fund (as it was then) and the Canada Council.

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## NOTICES

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### CLINICAL SCIENCES BUILDING INVESTIGATION TO BEGIN

Beginning on, or around, 7 March, the University will conduct a thorough investigation of the exterior of the Clinical Sciences Building in order to establish why certain of the concrete panels have loosened. The investigation will involve removal of selected panels, using a crane; these panels must be removed systematically from the top. Initially, some ten to fifteen panels will be removed. After completion of this first stage of investigation and depending on its outcome, these panels may be replaced, or all the exterior slabs will be removed and be replaced by some other covering.

Safety considerations make it necessary to completely evacuate all staff from areas in the second and lower floors of the Clinical Sciences Building (roughly in the southwest corner). Though such evacuation is at the discretion of the Campus Development Office, the areas should be evacuated generally from noon until sunset. Doug Mockford of the Campus Development Office is in charge of the project, and he should be contacted with any questions regarding the project.

### MUSIC SYMPOSIUM

The Department of Music and the Students' Union are sponsoring a symposium entitled "The composer and the music business," on 12 March from 9:30 a.m. to 4 p.m. in 1-23 Fine Arts Centre. The symposium is divided into four sections: a discussion of music publishing at 9:30 a.m.; a workshop on the performance of new music featuring Thomas Rolston and members of the University Brass Quintet at 11 a.m.; a discussion of performing rights at 1:30 p.m.; and a recital of works by composers Allan Bell, Jamieson Moore, and Robert Rosen at 3 p.m. Guest speakers will be Bailey Bird of Leeds Music, Toronto, and Ronald Napier of Broadcast Music Incorporated Canada. Admission to the symposium is free. For further information contact Allan Bell, telephone 432-3263.

### CFFS INDEX OF FILMS

The Canadian Federation of Film Societies annual *Index of Feature-Length Films* lists more than 10,000 feature films (in sixteen and thirty-five millimetres) available in Canada. The index is available at a cost of \$27.50 from the CFFS Index Committee, PO Box 484, Station A, Toronto, Ontario M5W 1E4.

### ANAESTHESIA REFRESHER COURSE

A refresher course in anaesthesia for general practice will be conducted 23, 24, and 25

March. Donald Dobson, MD, chairs the course, and nineteen doctors will cover topics such as anaesthetic equipment hazards, muscle relaxants, induction and maintenance of anaesthesia, and common problems in paediatric anaesthesia. Sessions will take place in 2-115 Clinical Sciences Building and during visits to city hospitals.

The course is sponsored by the Division of Continuing Medical Education, the Department of Anaesthesia, and the Council of the College of Physicians and Surgeons of Alberta. Course enrollment is limited to twenty-four participants and the fee for those wishing to attend only the lectures is \$25. The course is approved for eighteen credits by the College of Family Physicians. For further information and registration forms contact the Division of Continuing Medical Education, 12-103 Clinical Sciences Building.

### CKUA WHITE PAPER

Radio Station CKUA has issued a White Paper, *Planning for Change*, outlining proposed changes in its programming. The White Paper is an official statement concerning the radio station prepared by the Alberta Educational Communications Corporation (ACCESS). The changes are being made to comply with federal and provincial broadcast requirements for more educational and instructional program content. *Planning for Change* comprises three parts: a history of the radio station and summary of the broadcast requirements, a detailed list of government guidelines and complete program schedule, and a questionnaire for listeners. Copies of the White Paper are available from: ACCESS Radio CKUA, 10526 Jasper Avenue, Edmonton, Alberta T5J 1Z7, telephone 422-5161.

### DATA ENTRY SERVICE

Computing Service's Data Entry Service will type in, format, and edit manuscripts on the computer system. Completion time for small jobs is generally one or two days; rush jobs cost \$7.25 per hour; regular jobs, done on a first come, first served basis, cost \$6.40 per hour. For further information contact Ella Ritz, 302 General Services Building, telephone 432-5442.

### SURPLUS EQUIPMENT

The Purchasing Department wishes to encourage departments on campus to dispose of any surplus equipment that they might have. Disposal of surplus equipment is accomplished by completing a surplus equipment declaration form and forwarding it to the Purchasing Department, General Services Building. Equipment that has been declared as surplus will normally be listed in *Folio*. Proceeds from the sale of surplus

equipment are usually credited to the account from which they were purchased, but this is not always the case. Further information and details about the procedure for disposing of surplus equipment can be obtained by telephoning Bonnie O'Dwyer at 432-3208.

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## THIS WEEK AND NEXT

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*Listings must reach the Editor by 9 a.m. the Friday prior to publication. Written notification is preferred.*

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### 10 MARCH, THURSDAY

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#### Lecture on Buddhism

9:30 a.m. "Buddhism in Japan and North America," with speaker Leslie Kawamura, University of Calgary. Sponsored by the East Asian Studies Committee. 14-6 Tory Building.

#### Civilisation Series (13)

12:30 p.m. *Heroic Materialism: Nineteenth and Twentieth Centuries*. L-3 Humanities Centre.

#### Biochemistry Seminar

12:30 p.m. "Biosynthesis of phospho-enol-pyruvate," with speaker Henry Lardy, Enzyme Institute, University of Wisconsin. 227 Medical Sciences Building.

#### Botany Seminar

3 p.m. "Physiological ecology and niche relationships in successful plants," with speaker Fakhri Bazzaz, University of Illinois. M-145 Biological Sciences Centre.

#### Geophysics Seminar

3:30 p.m. "A statistical study of apparent resistivity," with speaker R. Sigal, Department of Physics. P636 Physics Building.

#### Mathematics Colloquium

4 p.m. "Chaotic behavior for simple dynamic models," with speaker James A. Yorke, University of Maryland. 657 Central Academic Building.

#### Classics Seminar

4 p.m. "An introduction to classical bibliography," with speaker T.N. Ballin, Classics Department. 1-8 Humanities Centre.

#### Humanities Film Society

7 p.m. *The Importance of Being Ernest* (Great Britain, 1952). Starring Michael Redgrave and Edith Evans. TL-11 Tory Building. Admission is \$.75.

#### Design Lecture

7:30 p.m. "Design for scholarly publishing," with speaker Peter Dorn, Director of Design, Queen's University. Slides of award-winning books will be presented. Music Room, Centennial Library.

#### German Film

7:30 p.m. *Der Kommissar: Das Ende eines*

*Humoristen and Der Kommissar: Der Tod eines Schulmädchens*. 13 Arts Building. Admission is free.

#### Edmonton Art Gallery Concert

8 p.m. Trio for flute, guitar, and viola. Downstairs, Edmonton Art Gallery. Admission is free.

#### University Mixed Chorus

8:15 p.m. The Mixed Chorus performs. Students' Union Theatre. Admission is \$. Tickets available at the HUB Box Office, booth on campus, and at the door.

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### 11 MARCH, FRIDAY

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#### Lectures on Buddhism

9 a.m. "Ritual and meditation," with speaker Leslie Kawamura, University of Calgary. Sponsored by the East Asian Studies Committee. 143 Arts Building.  
11 a.m. "Pure land Buddhism," with speaker Leslie Kawamura, University of Calgary. Sponsored by the East Asian Studies Committee. 2-15 Humanities Centre.

#### Japanese Lunch

11 a.m. Kama rice, teriyaki, and cole slaw. Main Floor, Students' Union Building. \$.2.

#### Public Reading

12 noon. Michael Ondaatje reads from *Coming Through Slaughter*, *Rat Jelly*, and *The Collected Works of Billy the Kid*. L-3 Humanities Centre.

#### Northern Light and Citadel Theatres

12:10 p.m. *Brecht* with actors from the Citadel's *Schwyk in the Second World War* and Northern Light's *Brecht on Brecht*. One performance only. In the Shoctor Theatre of the Citadel complex. Admission is \$1 at the door.

#### Hockey

5 p.m. and 9 p.m. The Golden Bears host the Canadian Intercollegiate Hockey Championships. Varsity Arena. Student ticket packages for all five games available at the HUB Box Office and the Physical Education General Office; regular ticket packages available at Mike's and Woodward's as well.

#### Faculty Club

*Downstairs*. Italian special: lasagne, garlic bread, tomato salad, torta di frutta. \$.45.  
*Upstairs*. Regular dinner menu; reservations required.

#### National Film Theatre

8 p.m. *The Third Man* (Great Britain, 1949). Starring Orson Welles, Joseph Cotten, and Trevor Howard. Centennial Library Theatre. Admission is \$2 regular, \$1.50 for students and senior citizens. Tickets available at the HUB Box Office, the A-V Desk at the Centennial Library, and at the door.

#### University Mixed Chorus

8:15 p.m. The Mixed Chorus performs. Students' Union Theatre. Admission is \$. Tickets available at the HUB Box Office, booths on campus, and at the door.

#### Edmonton Symphony Orchestra

8:30 p.m. The Orchestra performs with guests Bouchard and Morriset, duo-pianists. Pierre Héту conducting. Program includes Poulenc, Saint-Saëns, and a premier of Symphony Number Two, *A Host of Nomads*, by Malcolm Forsyth, Department of Music. Jubilee Auditorium. For ticket information contact the Symphony Box Office, 11712 87 Avenue, telephone 433-2020.

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### 12 MARCH, SATURDAY

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#### Creative Clothing Contest

2 p.m. Parade of participants in the contest, sponsored by the University Art Gallery and Museum. Provincial Museum Auditorium.

#### Hockey

2 p.m. and 7:30 p.m. The Golden Bears host the Canadian Intercollegiate Hockey Championships. Varsity Arena. Student ticket packages for all five games available at the HUB Box Office and the Physical Education General Office; regular ticket packages available at Mike's and Woodward's as well.

#### Edmonton Art Gallery Concert

2:30 p.m. Gail Bowen Quartet plays jazz. Downstairs, Edmonton Art Gallery. Admission is free.

#### Faculty Club

*Downstairs*. Saturday special: Cornish game hen, rice, Waldorf salad, Black Forest cake. \$.55.

*Upstairs*. Regular dinner menu; reservations required. Entertainment: Cameron and Company.

#### University Mixed Chorus

8:15 p.m. The Mixed Chorus performs. Students' Union Theatre. Admission is \$. Tickets available at the HUB Box Office, booths on campus, and at the door.

#### Edmonton Symphony Orchestra

8:30 p.m. The Orchestra performs with guests Bouchard and Morriset, duo-pianists. Pierre Héту conducting. Program includes Poulenc, Saint-Saëns, and a premiere of Symphony Number Two, *A Host of Nomads*, by Malcolm Forsyth, Department of Music. Jubilee Auditorium. For ticket information contact the Symphony Box Office, 11712 87 Avenue, telephone 433-2020.

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### 13 MARCH, SUNDAY

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#### Hockey

1 p.m. Final game of the Canadian Intercollegiate Hockey Championships. Varsity Arena.



#### Cinematheque 16

2 p.m. *Shane* (United States, 1953). Directed by George Stevens. Westerns of the Forties Series. Downstairs, Edmonton Art Gallery. Admission is \$2 for members and \$2.50 for non-members. Tickets available at the door.

#### Edmonton Symphony Orchestra

2:30 p.m. The Orchestra performs with guests Bouchard and Morriset, duo-pianists. Pierre Hétu conducting. The program includes Poulenc, Saint-Saëns, and a premiere of Symphony Number Two, *A Host of Nomads*, by Malcolm Forsyth, Department of Music. For ticket information contact the Symphony Box Office, 11712 87 Avenue, telephone 433-2020.

#### University Symphonic Wind Ensemble

3 p.m. The Ensemble, under the direction of Fordyce Pier, performs music by Paul Creston, Wolfgang Bottenberg, and Percy Grainger. Students' Union Theatre. Admission is free.

#### Provincial Museum Film

4 p.m. and 7 p.m. *Sabotage* (Great Britain, 1936). Directed by Alfred Hitchcock and starring Oskar Homolka. Provincial Museum Auditorium. Admission is free.

#### Student Cinema

7 p.m. and 9:30 p.m. *The Adventures of Sherlock Holmes' Smarter Brother*. Great Britain, 1976). Directed by and starring Gene Wilder. Students' Union Theatre. Admission is \$1.50 advance for students and \$2 at the door. Tickets available at the HUB Box Office.

#### Edmonton Jazz Society

8 p.m. Performers from Edmonton play with Dave Young and Wray Downs of Toronto. Centennial Library Theatre. Admission is \$5.50. Tickets available at the door.

### 14 MARCH, MONDAY

#### Students' Union Forum

12 noon. "The quality of working life," with representatives of labor, management, and government. Sponsored by the Department of Sociology and the Students' Union. Students' Union Theatre. Admission is free.

#### Seminar-in-the-round

2 p.m. "Script theory," with speaker R.P. Abelson, Yale University. Sponsored by the Centre for Theoretical Psychology. 14-6 Tory Building.

#### Public Lecture

8 p.m. "Psychonalysis and literature," with speaker Erich Heller, Northwestern University. Sponsored by the Department of Germanic Languages and Comparative Literature. 17 Arts Building.

#### Edmonton Film Society

8 p.m. *The Pirate* (United States, 1948).

Starring Judy Garland and Gene Kelly. Classics Series. TL-11 Tory Building. Admission is \$2.

#### Concert

8 p.m. The Good Brothers perform. Students' Union Theatre. Admission is \$5 advance, \$6 at the door. Tickets available at the HUB Box Office and Mike's.

#### Public Lecture

8 p.m. Representatives of the African National Congress speak on apartheid. Music Room of the Centennial Library.

### 15 MARCH, TUESDAY

#### Germanic Languages Seminar

10 a.m. "Psychoanalysis and literature," with speaker Erich Heller, Northwestern University. 14-6 Tory Building.

#### Public Lecture

12:30 p.m. Representative of the African National Congress speak on apartheid. TLB-2 Tory Building.

#### Students' Union Forum

1 p.m. "Conflict of interest," with speaker Aylmer MacKay, Progressive Conservative MP for Central Nova Scotia and discoverer of the Hamilton dredging scandal, the Sky Shops scandal, and the Blacklist scandal in the federal government. Students' Union Theatre. Admission is free.

#### Science Dining Club

6 p.m. "Mole hills and mountains: microcosms and macrocosms," with speaker George E. Ball, Department of Entomology. By reservation. Saskatchewan Room, Faculty Club.

#### National Film Theatre

8 p.m. *A Soldier's Father/Otets Soldata* (USSR, 1965). Directed by Rezo Chkheidze. English subtitles. Centennial Library Theatre. Admission is \$2 regular, \$1.50 for students and senior citizens. Tickets available at the door.

#### Boreal Circle Meeting

8 p.m. "An Arctic odyssey," with speaker John Amatt, Banff Centre School of the Environment. Students' Union Theatre.

### 16 MARCH, WEDNESDAY

#### Library Science Colloquium

11 a.m. "Canadian science," with speaker E. Wiggins, Director of the Alberta Research Council. 3-1 Rutherford South.

#### Classics Seminar

11 a.m. "Aeschylus's *Oresteia* trilogy," with speaker John B. McDiarmid, University of Washington. 1-7 Humanities Centre.

#### Computing Science Colloquium

4 p.m. "Complexity of pair selection," with

speaker Donald Johnson, Pennsylvania State University. 611 General Services Building.

#### Faculty Club

*Downstairs*. Family night: fried chicken, french fries, salad, shamrock cupcakes. Adults, \$3.50, children, \$2.50.

#### Student Cinema

7 p.m. *Seven Beauties* (Italy, 1975). English subtitles.  
9:30 p.m. *Swept Away . . . By an Unusual Destiny in the Blue Sea of August* (Italy, 1974). English dubbed. Both films directed by Lina Wertmuller and starring Giancarlo Giannini. Students' Union Theatre. Admission to this double feature is \$2 advance for students and \$2.50 at the door. Tickets available at the HUB Box Office.

#### Edmonton Film Society

8 p.m. *Laughter in Paradise* (Great Britain, 1950). Starring Alistair Sims and Joyce Grenfell. British Comedy Series. TL-11 Tory Building. Admission is \$2.

#### French Film

8 p.m. *On est au coton*, a film by Denys Arcand showing working conditions in the textile industry of Louiseville, Quebec. Collège Universitaire Saint-Jean Auditorium, 8406 91 Street.

#### du Maurier Pops Concert

8:30 p.m. The Edmonton Symphony Orchestra performs with Richard Hayman, conductor, arranger, and harmonicist. For ticket information contact the Symphony Box Office, 11712 87 Avenue, telephone 433-2020.

### 17 MARCH, THURSDAY

#### Concert

12:30 p.m. Larry Norman performs. Sponsored by One Way Agape. Students' Union Theatre. Admission is free.

#### Cinematheque 16

7:30 p.m. *Invention for Destruction/Vynalez Zkazy* (Czechoslovakia, 1957). Jules Verne stories in live action and animation. English version. Downstairs, Edmonton Art Gallery. Admission is \$2 for members and \$2.50 for non-members. Tickets available at the door.

#### Salon d'Histoire Franco-Albertaine

8 p.m. "Buildings of the French-speaking community in Edmonton." A history of certain buildings and houses that have been occupied by Franco-Albertans, with slides. Collège Universitaire Saint-Jean, 8496 91 Street.

#### Edmonton Art Gallery Concert

8 p.m. Classical music for guitar and harmonica. Downstairs, Edmonton Art Gallery. Admission is free.

#### Concert

8 p.m. The Dillards perform California

bluegrass. Students' Union Theatre. Admission is \$4.50. Tickets available at the HUB Box Office, Woodward's, Mike's, and at the door.

#### Explorations Five

8:30 p.m. Staff, students, and friends of the Department of Music perform Schumann, Stravinsky, and a work for theatre by Gloria Perks. Provincial Museum Auditorium. Admission is free.

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### 18 MARCH, FRIDAY

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#### Political Sciences Seminar

10:30 a.m. "The political economy of contemporary East Africa," with speaker Colin Leys, Queen's University. 14-6 Tory Building.

#### Education Seminar

2 p.m. "Underdevelopment and educational change in Kenya," with speaker Colin Leys, Queen's University. 255 Education South.

#### Faculty Club

*Downstairs.* St. Patrick's special: Irish stew, boiled potatoes, soda bread, green salad, trifle. \$5.  
*Upstairs.* University Ball. 6:30 p.m. cocktails. 7:30 p.m. buffet dinner. Oysters in the half shell, brochettes de crevettes, Chateaubriand Richelieu, pommes au four, tomates farcies, laitues braisées, tête de champignons, Park Avenue dessert table. \$12.50, excluding cocktails and dinner wines. Dress: semi-formal. Tickets from members of the Faculty Women's Club and through the Faculty Club. Entertainment: Gordon Schmidt Band.

#### Cinematheque 16

7:30 p.m. *Whatever Happened to Baby Jane?* (United States, 1962). Bette Davis Series. Downstairs, Edmonton Art Gallery. Admission is \$2 for members and \$2.50 for non-members. Tickets available at the door.

#### Public Lecture

8 p.m. "The roots of African underdevelopment," with speaker Colin Leys, Queen's University. Sponsored by the Interdepartmental Graduate Program in Education and International Development and the Interdepartmental Group on International and Comparative Education, Faculty of Education, TLB-2 Tory Building.

#### Les Ballets Jazz

8 p.m. Fifteen dancers working out of Montreal perform to the music of Canadian and American jazz composers. Students' Union Theatre. Admission is \$5.50. Tickets available at the HUB Box Office, Woodward's, Mike's, and at the door.

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### 19 MARCH, SATURDAY

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#### Edmonton Art Gallery Concert

2:30 p.m. The Taras Chornowol Quintet plays

jazz. Downstairs, Edmonton Art Gallery. Admission is free.

#### Faculty Club

*Downstairs.* Saturday special: rib-eye steak, baked potato with sour cream, Caesar salad, almond torte. \$5.50.  
*Upstairs.* Lobster, \$12.50; also regular dinner menu. Reservations required.

#### Les Ballets Jazz

8 p.m. Fifteen dancers working out of Montreal perform to the music of Canadian and American jazz composers. Students' Union Theatre. Admission is \$5.50. Tickets available at the HUB Box Office, Woodward's, Mike's, and at the door.

#### Student Cinema

12 midnight. *Magical Mystery Tour* (United States, 1968). Starring the Beatles. Special admission is \$1 advance and at the door. Tickets available at the HUB Box Office.

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### EXHIBITIONS AND PLAYS

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#### Provincial Museum

*Continuing.* "Documentary Heritage," a long-term exhibition displaying valuable manuscripts and documents in the Provincial Archives of Alberta. Archives Gallery.  
*Continuing.* "Steam Power in Alberta," a permanent display, including a steam hoisting engine and a steamboat engine used in Alberta at the turn of the century, illustrating steam power at work in transportation, farming, and industry. Theme Gallery.  
*From 11 March.* "Traditio Austriae," an exhibition of nineteenth-century Austrian furniture, paintings, crafts, and costumes.  
*From 14 March.* "A Sense of Humor," a selection of Sid Barron's editorial cartoons, published in *The Alberta* between 1964 and 1969.

#### Rutherford House

*Continuing.* The House, 11153 Saskatchewan Drive, is furnished in its original manner. Admission is free. Saturday and Sunday, 12 noon to 6 p.m. Tours by appointment, telephone 427-3995 weekends, 427-5708 weekdays.

#### University Observatory

*Continuing.* The Observatory's twelve-inch telescope can be used to observe the moon, planets, and other astronomical objects. The Observatory is open every Friday evening from 7 p.m. Group tours may be scheduled at other times. Admission is free. For further information or reservations telephone 432-4201.

#### University Art Gallery

*From 15 March.* "Creative Clothing Exhibit," a display of contest winners. The Gallery is located at Ring House One, just south of the Faculty Club off Saskatchewan Drive. Gallery hours: Tuesday and Wednesday

11 a.m. to 4 p.m.; Thursday 11 a.m. to 9 p.m.; Sunday 2 p.m. to 5 p.m.

#### Students' Union Gallery

*From 9 March.* "Focus on Five," an exhibition of recent painting by five Edmonton artists. Gallery hours: 12 noon to 5 p.m. weekdays, 2 p.m. to 5 p.m. weekends.

#### Edmonton Art Gallery

*To 21 March.* A one-man exhibition of paintings by Philip Darrah of the University.  
*To 1 April.* "Aspects of Realism," a collection of paintings from eleven countries, sponsored by the Art Gallery and Rothman's of Pall Mall Canada.

#### Centennial Library

*To 31 March.* A display of women's fashions from 1895 to 1905, from the Historic Costume and Textile Collection of the Faculty of Home Economics, selected by Clothing and Textiles student Gail Sundstrom.

#### Northern Light Theatre

*To 26 March.* *Brecht on Brecht*, arranged and translated by George Tabori. A collage of Brecht's work including poetry, plays, and songs. Staged in coordination with the Citadel's *Schweyk in the Second World War*. Downstairs, Edmonton Art Gallery. Performances are at 12:10 p.m. Tuesday through Friday with extra performances at 1:10 p.m. Thursday and Friday. Saturday performances at 7:30 p.m. and 9 p.m. Admission is \$2 for weekday performances, \$1 for senior citizens, and \$2.50 for all Saturday performances.

#### Citadel Theatre

*To 19 March.* Bertolt Brecht's *Schweyk in the Second World War*, a satirical musical drama. In the Shoctor Theatre of the Citadel complex. For ticket information contact the Theatre Box Office, 11018 102 Street.

#### Theatre Francais d'Edmonton

*11, 12, and 13 March.* *Toi et tes nuages* by Eric Westphal. Collège Universitaire Saint-Jean Auditorium, 8406 91 Street. All performances, in French, at 8 p.m. Admission is \$3.50 for adults, \$2.50 for students, and \$1.50 for children and senior citizens. Tickets are available at the HUB Box Office, Le Carrefour, 11217 Jasper Avenue, and at the door.

#### Theatre 3

*From 15 March.* Eugene O'Neill's *Long Day's Journey Into Night*, directed by Mark Schoenberg and featuring Walter Kaasa and Jacqueline McLeod. Performances at 8 p.m. Tuesday through Saturday, Sunday performances at 2 p.m. and 7:30 p.m. Tickets and season subscriptions available at the Bay Box Office, telephone 424-0121, and the Theatre Office, telephone 426-6870. Theatre 3 is located at 10426 95 Street.

## SCHOLARSHIPS, FELLOWSHIPS, AND AWARDS

### RTZ Educational Trust Awards and RTZ Research Bursary

*Donor:* Rio Tinto-Zinc Corporation Limited. *Where tenable:* Royal School of Mines and Imperial College of Science and Technology (University of London). *Level of study:* Post-graduate research. *Field of study:* Some subject connected with the discovery, mining, and beneficiation of minerals such as applied geochemistry, geophysics, mineral exploration, mining geology, mining, mineral technology, or extraction metallurgy. *Value:* £1,480 per annum with additional allowances according to qualifications and experience, college and university fees, plus field work expenses. (£1=\$1.82 Canadian). *Number:* One. *Duration:* One year. *Conditions:* Applicants must hold a degree with honors in a subject appropriate to the proposed research. *Closing date:* 31 March. *Further information and application forms should be requested from:* The Registrar, Imperial College of Science and Technology, London, England SW7 2AZ.

## POSITIONS VACANT

### Systems Applications Manager Office of Energy Management

*Duties:* Responsible for all software development and programming for a computerized remote control monitoring system, computer hardware assessment and selection, and supervision of all programming done by outside consultants. *Qualifications:* BSc in Computing Science or related field and experience in networking, mini computers, and microprocessors. *Salary range:* \$17,000 to \$23,000 per annum. *Apply to:* Director of Energy Management, 420Q General Services Building.

### NON-ACADEMIC STAFF POSITIONS

*To obtain further information on the following positions, please contact Personnel Services and Staff Relations, third floor SUB, telephone 432-5201. Please do not contact the department directly. Positions available as of 4 March.*

Library Clerk II (\$600-\$726)—Legal Resource Centre, Faculty of Extension  
Clerk Steno II (\$600-\$726)—Faculty of Extension  
Clerk Typist III (\$649-\$786)—Civil Engineering  
Time Table Scheduling Clerk (\$649-\$786)—Office of the Registrar  
Programmable Typewriter Operator (\$649-\$786)—Bookstore  
Programmable Typewriter Operator II (\$700-\$852)—Personnel Services and Staff Relations  
Clerk Steno III (\$672-\$817)—Secretariat; Faculty of Pharmacy and Pharmaceutical Sciences  
Admissions Records Trainee (\$700-\$852)—Office of the Registrar  
Departmental Secretary (\$756-\$926)—Faculty of Library Science  
Departmental Secretary (\$842-\$1,058)—Senate  
Senior Clerk (\$649-\$786)—Housing and Food Services  
Office Services Supervisor (\$926-\$1,141)—Office of the Comptroller  
Laboratory Assistant II (\$624-\$756)—Provincial Laboratory  
Stockman I (\$649-\$786)—Office of the Registrar  
Laboratory Assistant III (\$700-\$852, trust)—Faculty of Medicine  
Electron Microscope Technician I/II (\$786-\$1,093)—Pharmacology

Technician I (\$786-\$964)—Soil Science  
Systems Control Clerk II (\$786-\$964)—Office of the Comptroller  
Electronics Technician I (\$817-\$1,005)—Technical Services  
Control Centre Operator I (\$817-\$1,005)—Physical Plant  
Research and Planning Analyst III (\$887-\$1,093)—Institutional Research and Planning  
Audio Video Technician II (\$964-\$1,191)—Radio and Television  
Nurse (\$964-\$1,191)—University Health Service  
Maintenance Worker II (\$1,005-\$1,244)—Physical Plant  
Biology Technologist II (\$1,005-\$1,244)—Botany  
Control Centre Operator III (\$1,093-\$1,356)—Physical Plant  
Farm/Ranch Manager (\$1,141-\$1,417)—Soil Science  
Specialist Technician (\$1,417-\$1,767)—Physics; Physical Plant

*The following is a list of currently available positions in the University of Alberta Libraries. The bulletin board postings in the Library Personnel Office, 516 Cameron Library, should be consulted for further information about position requirements and availability.*

Library Clerk III (\$649-\$786)—Cameron Reserve Reading Room

## PERSONAL NOTICES

*All advertisements must be received by 9 a.m. the Friday prior to publication. Rate is 15 cents per word for the first week and 5 cents per word for subsequent weeks ordered before the next deadline. Minimum charge is \$1. Ads must be paid in advance.*

*We regret that no ads can be taken over the telephone. For order forms or further information, telephone 432-4991.*

### Accommodation Available

For sale—St. Albert: superior four-bedroom bungalow, family room with fireplace, double garage. Reduced to \$76,900 for immediate sale. Acreage, fully-treed, backing onto Half Moon Lake (ideal for water-skiing, skidooring), with 2,700-square-foot executive home. Numerous features. Thirty-five minutes to University. Inquire immediately about these homes by telephoning Shirley Way-Nee, Potter Realty, 436-3050; residence, 435-6032.  
For sale—Easy access to University via Quesnell freeway, a two-storey Perry with main-floor family and laundry rooms, professionally developed basement; attached double garage. March possession. Asking \$115,000 with large mortgage available. Telephone Eleanor Duncan, Potter Realty, 436-3050, 434-7368.  
For rent in Grandview. Between 1 July and 1 September for one year. Professor's home; four bedrooms, three baths; furnished. 434-4929; office, 432-5381.  
Furnished five-bedroom house, June 1977—August 1978. Quiet crescent, Aspen Gardens. Direct bus to University. 436-2271.  
By owner—three-bedroom semi-bungalow in Parkallen. Very clean, well kept; carpet throughout; rumpus room complete, with one extra bedroom and den. \$67,900. Telephone after five p.m. for appointment. 435-1493. Principals only.  
Attractive older semi-bungalow on tree-lined street. Priced at \$48,000. Convenient to University for staff or students; close to city centre via Low Level bridge for young professionals. Pat von Borstel,

# folio accepts display advertising

*Size and rates:* the basic unit size is 45 agate lines x 15 picas (3¼" x 2½"). The full page is divided into 9 such units, any combination of which is available at a cost of \$20 per unit. Half pages cost \$100. A professional/business card unit (2½" x 1½") is available at a cost of \$12. Discounts are offered for extended runs; please enquire.

*Other specifications:* half-tones (100-line screen or less) are acceptable; no color or bleeds. Camera-ready copy is preferred; there is a charge of 15c per word for typesetting, and \$5 per line for design of work which is not camera ready. Deadline for submission is one week prior to publication (Thursday, 4 p.m.) for camera-ready copy; 10 days for all other advertising copy. Positioning is at the discretion of the editor.

*Contact:* Richard Kerr or Esther Fraser, 326 Assiniboia Hall, The University of Alberta; telephone 432-4991.

434-4939 or Spencer Real Estate Ltd. 436-5250.  
House for rent—Westbrook area, furnished, four bedrooms, finished basement, study, fireplace, family room, sauna, view lot. June 1977 to summer 1978. Rent \$750. Telephone 435-2549 evenings.  
Close to University—three bedrooms, family room, open fireplace; double garage; beautifully landscaped. Telephone Liz Crockford, Spencer Real Estate, 434-0555; 436-5250; 426-5880 page 894.  
For sale—executive's impressive home with view; located in Riverbend; 2,630 square feet. Telephone Liz Crockford, 436-5250; residence, 434-0555. Spencer Real Estate.  
For sale—one-year-old immaculate three-bedroom bungalow in Duggan. 1½ baths. Easy access to University; fully landscaped, fenced; finished basement with one extra bedroom and half-bath, rumpus room, laundry; five appliances. 435-1681.  
For rent—four-bedroom furnished split level, Malmö. One year from July 1977. 434-5307.  
Two thousand square-foot two-storey; old brick facing. Double garage; many extras; seven minutes to University. Telephone Liz Crockford 434-0555; 436-5250. Spencer Real Estate.  
For rent—summer school period: large house adjacent campus. 432-3936; 439-5260.  
High, well-drained eighty acres; thirty-one miles on pavement southeast Edmonton. Gravelled approach to sheltered building site. Annual oil lease \$482. Power, gas, telephone available. \$42,000. Telephone 1-878-3782.  
Charming 1½-storey in Windsor Park. Shake roof, bookcase-wall in study, plate-rack lined separate dining room; hardwood floors on main, carpet upstairs. Three large bedrooms, two bathrooms, and kitchen are renovated. Large entry porch at side with stained-glass doors. Large lot with mature trees; ample parking. \$94,000. No agents. 433-0639.  
Summer rental, 1 July to 15 September or less. College Plaza one-bedroom, facing south. 433-3504.  
Garneau—spacious remodelled home, 1½ lots of R6 property, University hospital half block, \$78,000. Excellent financing. Telephone Barry 432-9244 between 4-7 p.m. weekdays.  
Lake Wabamun—landscaped lot with evergreens, mature poplars, and garden spot, within 200 yards of sandy beach and boat launch. Forty miles from city. Telephone 424-8440 evenings.  
Fully-furnished four-bedroom home. Ten minutes to University. Excellent condition. Available mid-July 1977 to summer 1978. References necessary. 436-4339.  
For rent—fully furnished house. July 1977 to summer 1978. Four bedrooms, three bathrooms. South side, close to University and Hospital. Telephone 432-5490; 436-2593.  
In Lamont, by owner selling at a bargain price of \$79,900: beautiful open-beam bi-level on 1½ lots; attached front-drive double garage with workshop; landscaped; large patio; laundry room, three bedrooms. 1½ baths on the main floor; exquisite wood-panelling in living and dining areas; developed

basement with large family room, recreation room, bedroom, kitchen, and cold room. Many other good features. Telephone 1-895-2271 evenings.  
Hardisty—ten minutes to campus: three-bedroom bungalow, 1,150 square feet; finished basement, party room, bar, bath, bedroom. Large landscaped lot, fruit trees, double garage. Excellent mortgage. Asking \$72,200. 466-3715.  
For rent—mid-March: five-bedroom home, Lansdowne, near all conveniences. 435-8093 evenings.  
For rent—house close to campus; two bedrooms and study. Summer 1977 to summer 1978. 434-4734.  
For rent—3 July—19 August. Three-bedroom bungalow one mile from University, one block from Saskatchewan Drive. Also available for rent 19 December 1977—July 1978. Telephone 436-3079.

#### Accommodation Wanted

House wanted—South-west. Single man wishes to purchase three-bedroom, open-beam bungalow; Petrolia or Duggan; prefers fireplace, garage. Will pay up to \$85,000. Please telephone Dorothy Hamilton 439-7371; residence 436-8509. Kellough Realty Ltd.  
Elderly lady needs one-bedroom unfurnished suite in duplex or small apartment building, preferably University area. Moderate rent. Required within three months. 433-3010.  
Wanted—furnished accommodation for professor and family. July or August 1977 to summer 1978. Dr. Wytse van Dijk, Department of Physics, Dordt College, Sioux Centre, Iowa, 51250, USA. 712-722-1021.  
Quiet, responsible university professor and wife require unfurnished house or apartment, preferably within walking distance of University; beginning 1 September 1977. Telephone 436-4085.  
Professor (non-smoker with plants) requires small house, walking distance to University. 1 September—1 June 1978, or longer. 439-9380.

#### Automobiles and Accessories

1975 Datsun. Must sell. Excellent running condition. Can be seen on campus during the day. Evenings, 986-8091.  
1975 Lancia Beta coupe: 12,000 miles; AM-FM stereo cassette. Asking \$7,600. Telephone 435-2935 between 6-11 p.m.  
For sale in Great Britain: 1972 Commer camper van. Sleeps four adults and child. Gas stove, sink, ice-box. Excellent for sabbatical family. 432-3512; after 6:30 p.m., 435-6720  
1974 Mercury Bobcat wagon, squire option, air conditioned, radials. Excellent. \$2,850. 465-7773.  
Farmall A tractor, completely reconditioned. Ideal acreage unit. \$1,100. 465-7773.  
1974 Toyota Corolla 1600 cc; white; standard; 28,000 miles; radio, eight-track. Slight body damage; good running condition. \$1,350. 433-1931.  
1974 Camaro Z-28, gold; air conditioning, power steering, power brakes, other accessories. Excellent condition. Low mileage. All reasonable offers

considered. 439-4833 evenings.  
Selling: 1958 GMC school bus converted to travel home; white; rear duals; excellent road rubber; re-wired; mechanically new; zero miles; sleeps six kitchen, dinette, toilet, propane heater and cooker. Rally driver's seat. Quadro sound; drapes, storage closets. Used as sabbatical vehicle. Go anywhere. Fully equipped. Must be seen. 439-5453 evenings.  
For sale—1975 Suzuki GT 380; 8,700 miles Excellent condition. Telephone 988-5287.

#### Goods and Services

Plumbing—for estimates on basement bathrooms, repairs, gasfitting, etc., call 465-7079.  
Antiques from England for sale. Tables, chairs, buffets, bookcases, stools, dolls, clocks, porcelain, art-glass, commemoratives, Oriental porcelain, pictures, gifts, collectables. Mary Goulden Antiques, corner of 109A Avenue and 135 Street. Thursdays, Fridays, Saturdays, 10 to 5 p.m. 452-0397.  
Shanghai House Mandarin Restaurant. Peking, Shanghai food—200 dishes. Peking duck—order in advance. Fire pot. Delicious, inexpensive. Monday through Friday, 4 p.m. to 10 p.m. Saturday and Sunday, 11 a.m. to 11 p.m. 6525 111 Street. 435-7622.  
Your own brand new limited company. \$250. 24-hour service. Bizecon International Limited. 5821 118 Avenue. 474-0782.  
Handyman carpentry services. Telephone John, 434-9709 evenings.  
Spectacular spring fishing in northern fly-in lake. Plan a derby with your department. For brochure or further information telephone Canadian Frontier Lodges, 434-3104.  
Typing—papers, books, theses, etc. 467-6201.  
The Alliance Française, a non-profit organization, offers courses in French at all levels to both adults and children. Telephone 433-7946 and leave your name and telephone number.  
Typing. Reasonable rates. Mrs. Hlus, 484-2629.  
Need money? We have funds available, so come in and see us about a loan. We're friendly and our rates are very competitive. Loans are penalty-free, and interest is calculated on the remaining monthly balance. Telephone the University of Alberta Employees Savings and Credit Union at 432-3256 for more information.  
Edmonton Cricket Club needs playing members for the 1977 season. Telephone Colin, 439-5484 or Geoff, 435-6894 for details.  
Garage and furniture sale—household items; toys, books; mattresses and box springs; Vilas furniture; new tires and wheels, etc. Saturday, Sunday: 9 a.m.-8 p.m. 10548 31 Avenue.  
For sale—soft-top tent trailer. Best offer. Call Jerry or Mary 439-3531.  
Babies—three- to nine-month-old volunteers needed for a short observation of early learning. Dr. Cornell, 432-5216.  
Childcraft library, 1970 edition. Excellent condition; fifteen-volume set. \$80. 435-2412.

## CAMPUS HAIR CENTRE

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